## Basic Details:

- **Name:** S. Rajeswari

- **Designation**: Assistant Professor

- **Phone Number:** 9551767404

- **Email ID:** rajeswas6@srmist.edu.in, rajeswari.maths2019@gmail.com

- **Area or Subject:** Operations Research

- **Affiliation:** Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

## Educational Details:

- **Degree** – M. Sc., B.Ed., M. Phil, Ph. D.

- **Area or Subject** – Mathematics

- **University**

  Ph. D. Mathematics – (Pursuing), Queen Mary's College [University of Madras], Chennai, Tamil Nadu, India.

  M. Phil – 2014, D.G. Vaishnav College [University of Madras], Chennai, Tamil Nadu, India.

  B. Ed – 2011, Sastha College of Education [Tamilnadu Teachers Education University], Tamil Nadu, India

  M.Sc. Mathematics – 2010, D.G. Vaishnav College [University of Madras], Chennai, Tamil Nadu, India.

  B.Sc. Mathematics – 2008, J.H.A Agarsen College [University of Madras], Chennai, Tamil Nadu, India.

## Other Details:

**Courses:**

- Algebra and Trigonometry
- Real Analysis I
- Real Analysis II
- Calculus and Coordinate Geometry
- Mathematical Stastistics I

- Mathematical Statistics II
- Allied Mathematics I
- Allied Mathematics II
- Operations Research
- Numerical methods
- Statistics

**Research Interests:** Inventory models, Fuzzy optimization.

**Publications:**

- Rajeswari S, Sugapriya C, Nagarajan D (2021) Fuzzy inventory model for NVOCC's returnable containers under empty container repositioning with leasing option. Complex & Intelligent Systems (Springer) https://doi.org/10.1007/s40747-020-00229-1

- Rajeswari S, Sugapriya C, Nagarajan D (2021) An analysis of uncertain situation and advance payment system on a double-storage fuzzy inventory model. OPSEARCH (Springer) https://doi.org/10.1007/s12597-021-00530-8.

- Rajeswari S, Sugapriya C, Nagarajan D, Kavikumar J (2021) Optimization in Fuzzy Economic Order Quantity Model Involving Pentagonal Fuzzy Parameter. International Journal of Fuzzy Systems (Springer) https://doi.org/10.1007/s40815-021-01111-z.

- Rajeswari S, Sugapriya C, Nagarajan D, Broumi S, Smarandache F (2021) Octagonal fuzzy neutrosophic number and its application to reusable container inventory model with container shrinkage. Computational and Applied Mathematics 40:308 (Springer) https://doi.org/10.1007/s40314-021-01600-9

- Harish Garg, S. Rajeswari, C. Sugapriya, D. Nagarajan (2022) A model for container inventory with a trazepzoidal bipolar neutrosophic number, Arabian Journal for Science and Engineering (Springer).

- Harish Garg, S. Rajeswari, C. Sugapriya, D. Nagarajan (2022) Optimization of the vendor's inventory model with multi-supplier and multi-retailer using fuzzy parameters, International Journal of Intelligent Systems (Wiley).

- Rajeswari, S, Sugapriya, C. Fuzzy economic order quantity model with imperfect quality items under repair option. J. Res. Lepidoptera 51(1), 627–643 (2020) https://doi.org/10.36872/LEPI/V51I1/301058

- Rajeswari, S, Sugapriya, C (202) An exergetic economic order quantity model for retailer's optimal policy with imperfect quality items under repair, warranty and emergency buy options. Test Eng. Manag. 83, 16142–16163.

- Sugapriya, C, Rajeswari, S, D. Nagarajan,D, Zarife Zararsız, Zakiya Said Mahad Al Amri. An effective container inventory model under bipolar neutrosophic environment, Neutrosophic Sets and Systems Vol. 50

- Rajeswari S, Sugapriya C, Nagarajan D, Broumi S, Smarandache F (2022) Application of Triangular Fuzzy Neutrosophic Number to an Effective Economic Order Quantity Model ,Handbook of Research on Advances and Applications of Fuzzy Sets and Logic DOI: 10.4018/978-1-7998-7979-4.ch029 (IGI

Global)

- C. Sugapriya, S. Rajeswari, D. Nagarajan, K. Jeganathan Knowledge measure based q-rung orthopair fuzzy inventory model. q-rung orthopair fuzzy sets: Theory & Application (Springer Book) -Accepted

**Papers Presented in international/national conferences:**

.
- Paper presented on "Fuzzy Economic Order Quantity model with imperfect items and screening errors under repair option" in the "International Conference on Fuzzy Mathematical Analysis in Computational Mathematics (FMAACM-2021)" organized by Ramanujam School of Mathematical Science, Departmant of Mathematics, Pondicherry University (A Central University of India) during 25-26 February 2021.

- Paper presented on "Two-Warehouse Fuzzy Economic Order Quantity Model With Imperfect Items And Screening Errors Under Advance Payment" in the "3rd International Conference on Advanced Scientific Innovation in Science, Engineering and Technology (ICASISET-2020)" organized by Bharath Institute of Higher Education and Research, Chennai, during 15-16 May 2020.

- Paper presented on "Fuzzy Economic Order Quantity model with imperfect quality items under repair option" in the "8th International Conference on Contemporary Engineering and Technology 2020 (ICCET 2020)" organized by Prince Shri Venkateshwara Padmavathy Engineering College, Prince Dr. K. Vasudevan College of Engineering & Technology, Ponmar, College, during 14-15 March 2020.

- Paper presented on "On the use of warranty claim and repair option in an EOQ model with imperfect items and screening errors" in the "National Conference on Stochastic Modeling and Computational Techniques (NCSMCT 2021)" organized by Ramanujan Institute for Advanced Study in Mathematics, University of Madras during 24th – 26th, March 2021.

**Working Papers:**
- Container inventory model

**Work in Progress:**
- Container inventory model

**Academic Experience:**
- Worked as an Assistant Professor in Department of Mathematics, J.H.A. Agarsen College (Arts & Science), Chennai. Affiliated to University of Madras [June 2014 to April 2016]
- Assistant Professor, Department of Mathematics, St. Anne's Arts and Science College, Chennai. Affiliated to University of Madras [June 2016 to August 2019]

**Seminars, Webinars, Workshops and Conferences Attended**

- Attended the International Seminar on "Research Trends in Applied Mathematics (ISRTAM-2020)" organized by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai on 7th January 2020.
- Attended the Online National Workshop on "Basics of Documentation using Latex" organized by the Department of Mathematics, Stella Maris College, Chennai on 24th , 25th , 29th & 30th April 2020.
- Attended the webinar on "Future Immersive Technologies for Virtual and Augmented Reality", conducted by Dr. Hoshang Kolivand, Computer Science, Liverpool John Moores University, United Kingdom on

16th May, 2020.

- Attended the webinar on "Big Data Analytics Organized by Digital Career & Entrepreneurship Hub-DCEH" organized by Bharathiyar University during 27th-29th May 2020.
- Attended the webinar on 'Organising a Literature Review' organised by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai on 3rd June, 2020.
- Attended the webinar on "How do you write a high impact factor paper?" organized by Mahatma Gandhi College on 7th June 2020.
- Attended the webinar on "Introduction to the Theory of Automata & its Applications" organized by Queen Mary's College Chennai on 11th June 2020.
- Attended the webinar on "Artificial Intelligence in Year 2020 and its Applications" organized by PG and Research Department of Physics, Queen Mary's College (Autonomous), Chennai on 5th June 2020.
- Attended the webinar on "Introduction to Research Topics in Graph Theory" organized by St. Anne's Arts and Science College, Chennai on 29th June 2020.
- Attended the Online National Workshop on "Recent Trends in Research Methedology" organized by Queen Mary's College Chennai on 30th December 2020.

**Achievements and Awards:**

- Completed the online NPTEL course on "Introduction to Fuzzy Set Theory, Arithmetic and Logic" during July-Oct 2019.

**Membership: Nil**

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